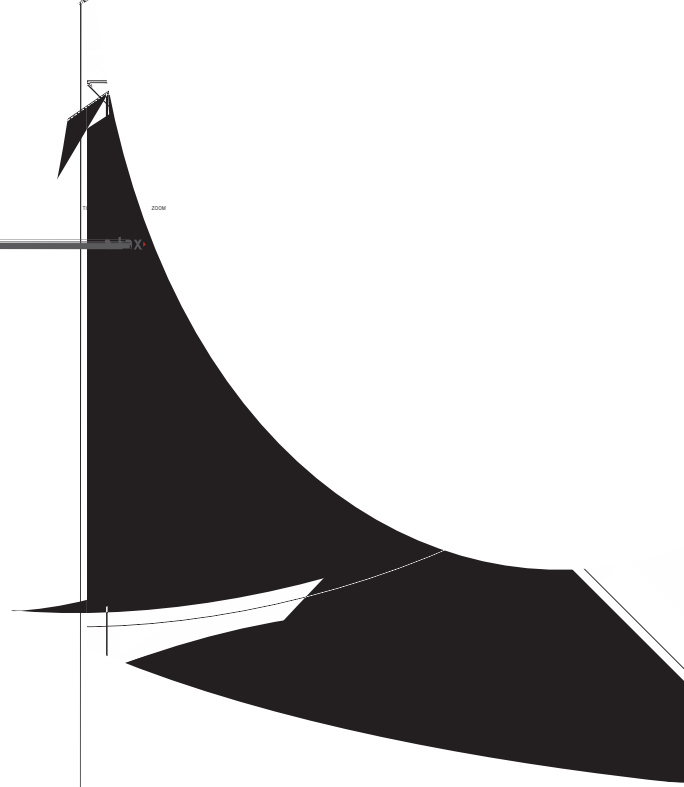
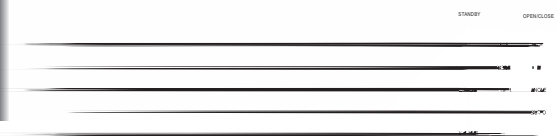


# DVD-Player



## Operation manual





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**Reference**

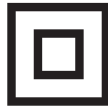
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A triangle with a lightning symbol draws the user's attention to "dangerous voltage" without insulation in the housing which may be high enough to entail a risk of electric shock.



A triangle with an exclamation mark draws the user's attention to important instructions for use and maintenance in the accompanying manual which should be studied.



Symbol for Class II (double insulation).

**WARNING:** TO MINIMISE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE DEVICE TO RAIN OR MOISTURE. DO NOT OPEN THE HOUSING AS IT CONTAINS DANGEROUS VOLTAGE. ONLY SKILLED TECHNICIANS ARE ALLOWED TO CARRY OUT REPAIR AND SERVICE.

**CAUTION:** If the power cord plug is to be replaced, it is important that the replacement is identical to the plug to be replaced, or that the new plug has been recommended by the manufacturer.

**TO AVOID THE RISK OF ELECTRIC SHOCK, IT IS IMPORTANT TO INSERT THE PLUG CORRECTLY INTO THE SOCKET.**

This DVD player includes a laser system.

There is a risk of dangerous radiation from the laser beam if buttons, controls and procedures are not used or carried out as described in this manual. To avoid contact with the laser beam, do not open the device.

**DO NOT LOOK DIRECTLY INTO THE LASER BEAM.**

**WARNING: IT IS IMPORTANT THAT YOU STUDY AND OBSERVE BOTH THE INSTRUCTIONS IN THIS MANUAL AND THE INSTRUCTIONS ON THE DEVICE. KEEP THIS MANUAL FOR FUTURE USE.**

This device was developed and made with a view to providing maximum safety for the user. Incorrect use of the device may cause electric shock or fire. The protection built into this device will protect the user if the procedure below is observed in connection with installation, use and repair. This device is fully electronic and contains no parts which can be repaired by the user.

**THE HOUSING MUST NOT BE REMOVED. RISK OF DANGEROUS VOLTAGE. ONLY SKILLED TECHNICIANS ARE ALLOWED TO REPAIR THE DEVICE.**

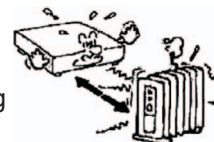
**Read the manual**

On unpacking the device, please read the manual carefully and observe all instructions given.



**Heat**

Do not place the device near sources of heating such as radiator, register, stove or other heat-producing devices (including amplifiers).



**Power supply**

Only the power supply indicated on the rating plate must be used for this device. If you are not sure which power supply you have, please contact the distributor or the local electricity supplier.



**Water and moisture**

The device must not be placed close to water, such as bath tub, wash basin, kitchen sink or wash tub, in a damp cellar or close to a swimming pool, etc.



**Earthing or polarization**

If the plug cannot be inserted properly into the socket, or if the plug does not fit, the device must not be used in your country.

**Cleaning**

Unplug the device before cleaning. Do not use liquid detergents and aerosol cleaning agents. Use a dry cloth.



**Ventilation**

The housing is provided with slots and openings to ensure ventilation and reliable operation and protect the device against overheating. Do not block or cover these openings. The openings must never be blocked, for example by placing the device on a bed, a sofa, a carpet or similar surface.

**Power cords**

Wiring must be organised to prevent people from stepping on the cables and to avoid pinching by objects placed on or beside them. Take special care around sockets and plug boxes and where the cable leaves the device.



**Overloading**

Make sure that sockets, extension flexes and plug boxes are not overloaded as this may lead to fire or electric shock.



**Lightning**

Unplug the device for additional protection during thunder or when the device is not used for prolonged periods. This will prevent damage to the device from lightning and surges.



**Penetration of objects and liquid**

Never push any objects through the openings into the device, as they may touch dangerous voltage points or short circuit parts and cause fire or electric shock. Do not spill liquid on the DVD player.



**Accessories**

The device must not be placed on unstable surfaces such as a trolley, stand, tripod, shelf or table. The device may fall and injure children or adults or be damaged. Use only trolley, stand, tripod, shelf or table which are very stable or provided with the device. The Device must be installed in accordance with the manufacturer's instructions and by means of installation equipment recommended by the manufacturer. If the device is placed on a trolley, the trolley must be moved carefully. Sudden stops, unnecessary force and uneven surfaces may cause the trolley to turn over.



**Discs**

Do not use scratched, deformed or repaired discs. Such discs will break easily and may cause serious injury and damage to the device.



**Damage**

Unplug the device and contact skilled technicians in the following cases:

- A) If power cord or plug is damaged.
- B) If liquid has been spilled on the device or objects have fallen into the device.
- C) If the device has been exposed to rain or water.
- D) If the device does not work properly after adhering to the instructions in the user manual. Make only the setups mentioned in the manual, as incorrect setup may cause damage and will often make it difficult for a skilled technician to make the device work properly again.
- E) If the device has been dropped or damaged in any other way.
- F) When the operation of the device changes drastically, the device requires service.

**Service**

Do not attempt to carry out any service work yourself. By opening or removing the housing, you will be exposed to dangerous voltage, etc. Any service work should be carried out by skilled technicians.



**Disc drive**

Keep your hands off the drive when it closes to avoid trapping your fingers.



**Loads**

Do not place heavy loads on the DVD player, and do not step on it. The load may fall and cause serious injury or damage to the device.



**Spare parts**

If spare parts are required, make sure that the technician uses spare parts specified by the manufacturer or with the same characteristics as the original component. Unauthorised spare parts may cause fire, electric shock, etc.

**Safety check**

After service or repairs on the DVD player, ask the service technician to carry out a safety check to ensure that the device is ready for use.



**Handling instructions**

- The DVD player's top and back panel may become warm after prolonged use. This is not due to a defect.
- When the DVD player is not used, remove the disc and turn off the device.
- If the DVD player is not used for a long period, its function may deteriorate. Therefore, the DVD player should be turned on and used now and then.

**Protect the power cord**

Follow the instructions below to avoid irregular function, electric shock, fire, or injury:

- Hold the plug firmly when inserting it into the socket
- Avoid heat-producing devices
- Do not place objects on the power cord
- Do not carry out service work on or change the power cord

**Positioning**

Do not place the device in any of the following places:

- In sunlight, close to heat-producing devices and in a closed trolley
- At high temperatures (40°C or above) or high relative humidity (90% or more)
- In dirty places as some internal parts may be damaged

**Do not put your fingers or any other objects into the device**

- Touching the internal parts is dangerous and may cause injury or damage. Do not open the housing.
- Do not place foreign matter on the drive.

**Interference**

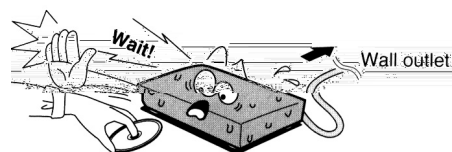
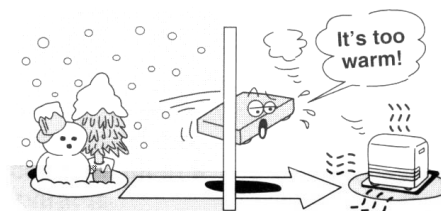
Placing the DVD player near a television set, radio or video player may cause poor picture and sound quality. In that case, move the DVD player further from television set, radio or video player.

**Condensation**

Condensation may occur in the following cases:

- When the DVD player is moved directly from a cold to a warm place.
- When the DVD player is used in a room where the radiator has just been switched on or where the cold air from the air condition plant is directed at the device.
- If the DVD player is used in the summer in a warm and humid room just after it has been removed from an air conditioned room.
- If there is steam or a high level of humidity in the room.

In case of condensation, the DVD player will not work properly. Remove the disc and turn off the device. Unplug the device and leave it for 2-3 hours. The DVD player will then have adapted to the environment and any condensation will have disappeared.



**NOTE:**

An Ø may appear on the screen when the device is turned on. This means that the required operation is not available.

the following dis

**DV**

**Video-CD  
(VCD)**

**AUDIO CD**

**MP3**

**JPEG**

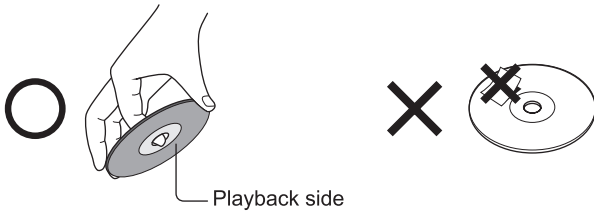
**KODAK CD**

**CD-RW**



**Disc handling**

- Do not touch the playback side of the disc
- Do not put paper or tape on the disc



**Cleaning the discs**

- Finger prints and dust may cause poor sound and picture quality. Wipe the disc with a dry, soft cloth. Wipe from the centre out. The disc should always be clean.



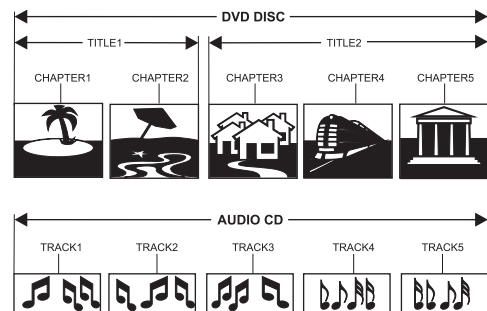
- If the dust cannot be removed with a soft cloth, wipe the disc carefully with a moist cloth and then with a dry cloth.
- Do not use any type of solvents such as thinner, petrol, commercial detergents and anti-static spray for vinyl records. These may damage the disc.

**Storing the discs**

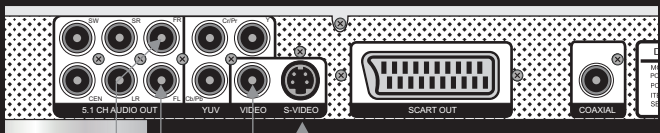
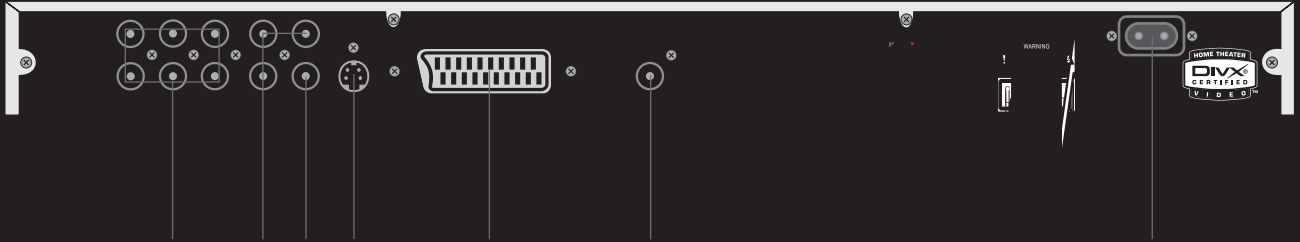
- Do not store the discs where they may be exposed to direct sunlight or where they are close to sources of heat.
- Do not store the discs where they may be exposed to moist or dust, for example in a bathroom or close to a humidifier.
- Store the discs standing in a cassette. If the cassettes are stacked or an object is placed on the cassettes, the discs may become uneven.

**Organisation of discs**

Normally, DVD discs are divided into titles, and the titles are then divided into chapters. Music CDs are divided into tracks.



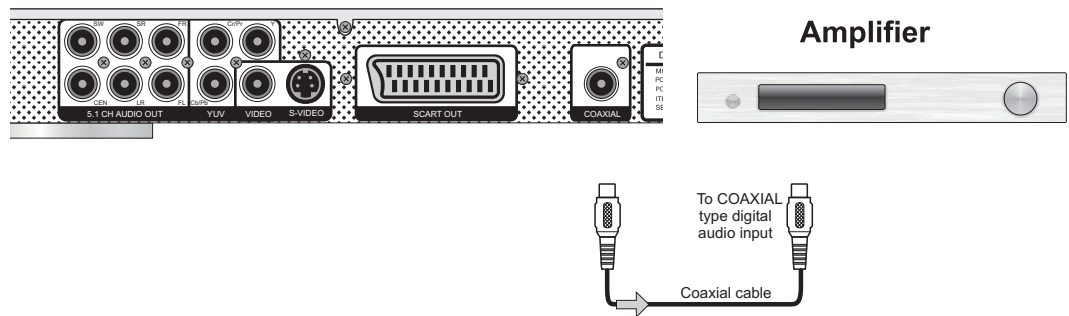
Each title, chapter and track has been given a number, designated title number, chapter number and track number, respectively.



- **Connection to an analogue surround system and a TV with a component YUV video input.**

**Note:** Downmix must be set at 5.1 to make the audio track fit the analogue surround receiver (see page 18).

- **Connection to amplifier with digital audio input and TV-set**



If the receiver is provided with coaxial input, the DVD player can be connected with a coaxial cable. When a coaxial cable is used, don't use the optic cable.

Front panel

---

---

1. Power
2. Standby LED
3. Display
4. Infrared receiver
5. Open/Close

6. Play/Pause
7. Stop
8. Previous
9. Next
10. DVD tray

30  
31  
?

- VOLUME -
- MENU
- TITLE
- SCROLL UP
- SCROLL LEFT
- 4. PREVIOUS
- 15. FAST REVERSE
- 16. 0-9 DIGITS
- 17. TIME
- 18. OPEN/CLOSE
- 19. PROGRAM
- 20. VIDEO MODE
- 21. PRO LOG
- 22. ANGLE
- 23. SUBTITLE
- 24. AUDIO
- 25. STOP
- 26. SET
- 28. PLAY
- 29. SCROLL
- 30. RECORD

**Preparation**

- When you wish to watch a DVD film, switch on the TV-set and choose the video input connected to the DVD player.
- When you wish to listen to the disc from the audio system, switch on the audio system and choose the input connected to the DVD player.

**Normal playback**

1. Press Standby at the front panel to switch on the DVD player. The start logo appears on the TV screen. If the disc drive already contains a disc, the playback will start as soon as the DVD player is switched on.
2. Press the OPEN/CLOSE button to open the disc drive and insert a disc.
  - Discs come in two different sizes. Place the disc correctly in the disc drive. If the disc does not fit into the opening, the disc may be damaged and the device may not work properly.
  - Do not insert discs which are not suitable for this type of DVD player.
3. Press the OPEN/CLOSE button to close the disc drive; the playback will now start.
  - Press the PLAY button if the playback does not start automatically.
4. Some discs will start by presenting a menu. Use the cursor button on the remote control to choose among the different items, then press PLAY. Alternatively, you can enter the number of the function in question.

**Pause**

1. Press PAUSE/STEP to stop playback (still picture). The sound will be deactivated in still mode.
2. Press PLAY to continue normal playback.

**Stop playback**

1. Press the STOP button to stop the playback. The start logo will reappear on the TV screen. Some discs offer the possibility of resuming playback from the same spot, for example DVDs and music CDs.
2. Press PLAY to continue playback where the playback was stopped, or from the start.
3. Press STOP twice to stop the playback completely.

**Previous and next**

During playback, press PREV I<< to go back to the start of the chapter. Press PREV again to go back to the chapter before that, etc. (please note: this function depends on the disc format and may vary from one disc to the other).

With each activation of NEXT >> during playback, the device will skip the current chapter and go on to the next.

**Fast forward/reverse**

1. Press F.FWD >> to go fast forward on the disc. The speed changes every time F.FWD >> is pressed.
2. Press PLAY to revert to normal playback.
3. Press F.REV << to go fast backward on the disc. The speed changes every time F.REV << is pressed.
4. Press PLAY to revert to normal playback.

**IMPORTANT**

All descriptions refer to DVDs. Function and display may vary if other types of discs are used.

**VIDEO MODE**

The video output can be set to "YUV", "CVBS", or "RGB".

**OSD (On Screen Display)**

Press DISP to switch between "title played", "title left", "chapter played", "chapter left", and "display off".

**SUBTITLE**

When SUBTITLE is pressed, the display shows "SUBTITLE 01/XX XXXXX". "01" designates the language number, "XX" the total number of languages, and "XXXXX" designates the country's language (the number of languages depends on the disc). A selection of up to 32 languages is available on the screen.

**STEP**

Press STEP to step a single frame/picture forward during playback. Press PAUSE/STEP several times to step several frames/pictures forward.  
Press PLAY to resume playback

**TIME**

If you press the TIME key once, the search menu is displayed and if you press the key once more, the function is cancelled. In the search menu, the desired option can be selected by means of the UP/DOWN key, the number keys and PLAY. Press PLAY to confirm your choice. The Time Menu comprises the following:

- Title:** Shows how many titles the disc includes, and which title is shown.
- Chapter:** Shows how many chapters the disc includes, and which chapter is shown.
- Audio:** Shows which audio track is heard, and which audio tracks the disc includes.
- Subtitle:** Shows which subtitle language is used, and the languages that are available.
- Angle:** Shows how many camera angles that are used, and the number of camera angles available.
- TT Time:** Shows the total time of the title concerned.
- CH Time:** Shows the total time of the track concerned.
- Repeat:** Shows which repeat mode has been selected
- Time Disp.:** Shows which display mode has been selected.

**Note:** The Time Menu is only active during DVD playback. Otherwise the TIME key is a GOTO function where you can enter the desired point in time that you wish to go to.

**REPEAT**

Press REPEAT once to choose on-screen which chapter to repeat. Press once more to choose the title to be repeated, and press a third time to choose to repeat all, and four times to cancel the repetition.

**A-B REPEAT**

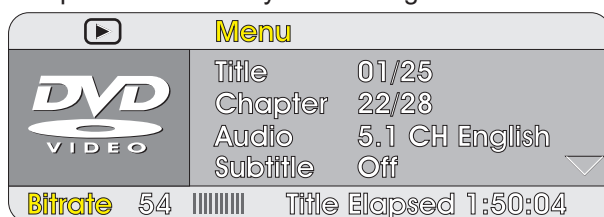
Press A-B RPT to set up the starting point and again to set the stop point and complete the set-up. The section between A and B will be repeated. Press the button a third time to cancel.

**PROGRAMME**

Press PROG to enter programme mode. Enter the number at the desired programme on track or title and chapter and move the cursor to START to start the programme. If you wish to cancel the function, press STOP and then PLAY.

**TIME (search)**

Press TIME once, to view the search menu, and press once more to cancel the function. In the search menu, use the UP/DOWN- and DIGIT-buttons to make the desired choice. Press the PLAY button to confirm the choice.



**ZOOM**

Press this button to enlarge the picture. The size of the picture changes every time the button is pressed.

**NTSC/PAL**

Choose between PAL, NTSC, and multi through the setup menu. In the multi function, the device will find the right system.

**VOLUME and MUTE**

Press the volume + button to increase the volume and the volume - button to reduce the volume. When MUTE is pressed once, the sound will disappear. Press once more to restore the sound.

**MODE**

Press the MODE button to change between the video outputs.

**MENU**

Press this button to see the main menu and make the desired choice. (This button can be used for DVDs with multi-layer menu. Make the desired choice).

**TITLE**

On some DVDs, the title menu will be shown when this button is pressed. Numbers can also be used to choose the desired tracks.

**ANGLE**

When watching sports, concerts or a play, press this button to see the same action from different angles. (Applies to discs with this function. Some discs were recorded from several angles, and the desired angle can be selected, for example from the front, from the side, the whole picture or from outside).

**AUDIO**  
**(selecting audio channel)**

Press this button to choose between different types of sound reproduction, such as:

Audio: 1/2: AC3 2 CH English

Audio: 2/2: AC3 5.1 CH English



## Playing JPEG files

JPEG files contain picture information which can be encoded by micro computer software and transmitted to the TV screen via a video output interface. This function is useful in many contexts. For example teachers can change pictures to be shown in the classroom to JPG files by means of a digital camera or a scanner which are often used within the IT world and transfer the pictures to CD-R discs. This will make things easier for the pupils when the teachers play the discs via a TV set or other types of equipment in the classroom. It reduces the repetitive work for the teachers, and the discs are easy to store (information on discs can be stored for more than 100 years). By means of a digital camera or scanner, families can transfer pictures to CD-R discs. If, for example, a picture requires 100K bytes, one disc will hold about 6000 pictures. Manufacturers can show their customers pictures of their products one by one.

Note: The actual contents vary from one type of disc to the other.

1. When a JPEG disc is loaded in the DVD-player, an automatic slide show will be launched.  
Each picture will be displayed and scaled to fit the screen.  
Press STOP to enter the file library.  
Use the SCROLL key to navigate the pictures, and press PLAY to display a picture.  
When the a picture has been chosen, the slide show will resume with the next picture in the library.
2. Press SCROLL to rotate the picture. These operations are allowed only when a picture is being displayed normally and will be cancelled automatically when a new picture is displayed.
3. Press ZOOM to execute the zoom function and select the zoom enlarging scale with I<< and >>I.  
In zoom mode, press the SCROLL buttons to move the picture on the screen. With zoom mode off, the next picture will be scaled to fit the screen.  
Press PLAY to cancel the zoom mode and resume the slide show.

### JPEG limitations

- JPEG files containing CMYK colors is not supported by this DVD-player.
- The range of pixels should not be exceeding 3840 X 3840 pixels, in order to achieve the best Performance.

## Mp3 discs

MP3 is an audio compression mode using level 3 of the international MPEG standard, whereby the sound signal is compressed at the ratio of 12:1. An MP3 disc can record music for playback over 600 minutes or record over 170 songs in a sound quality that fully matches the sound quality of CDs.

### How to play an MP3 disc

When playing an MP3 disc, you can choose between the following two file menus by pressing the PROG key: FILE LIST and FOLDER LIST.

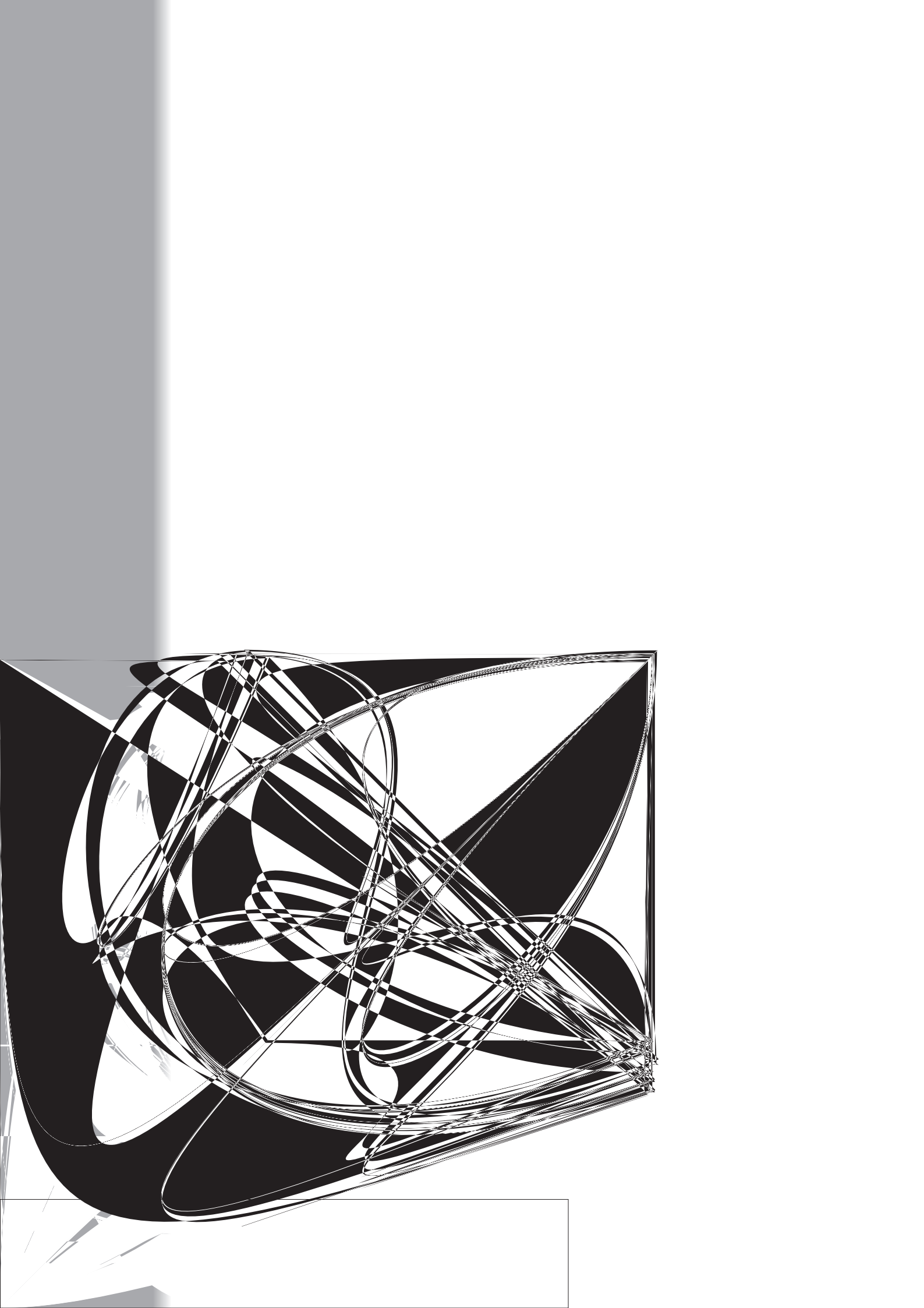
1. FOLDER LIST  
First the menu is displayed, then press the arrow keys UP/DOWN and LEFT/RIGHT and then PLAY to select subdirectory and music.
2. FILE LIST  
Here you select the files to be played by pressing the arrow keys UP/DOWN and LEFT/RIGHT and then PLAY or by pressing the number keys and PLAY for direct selection. If the entered number is not Available, the message "INPUT INVALID" will be displayed.

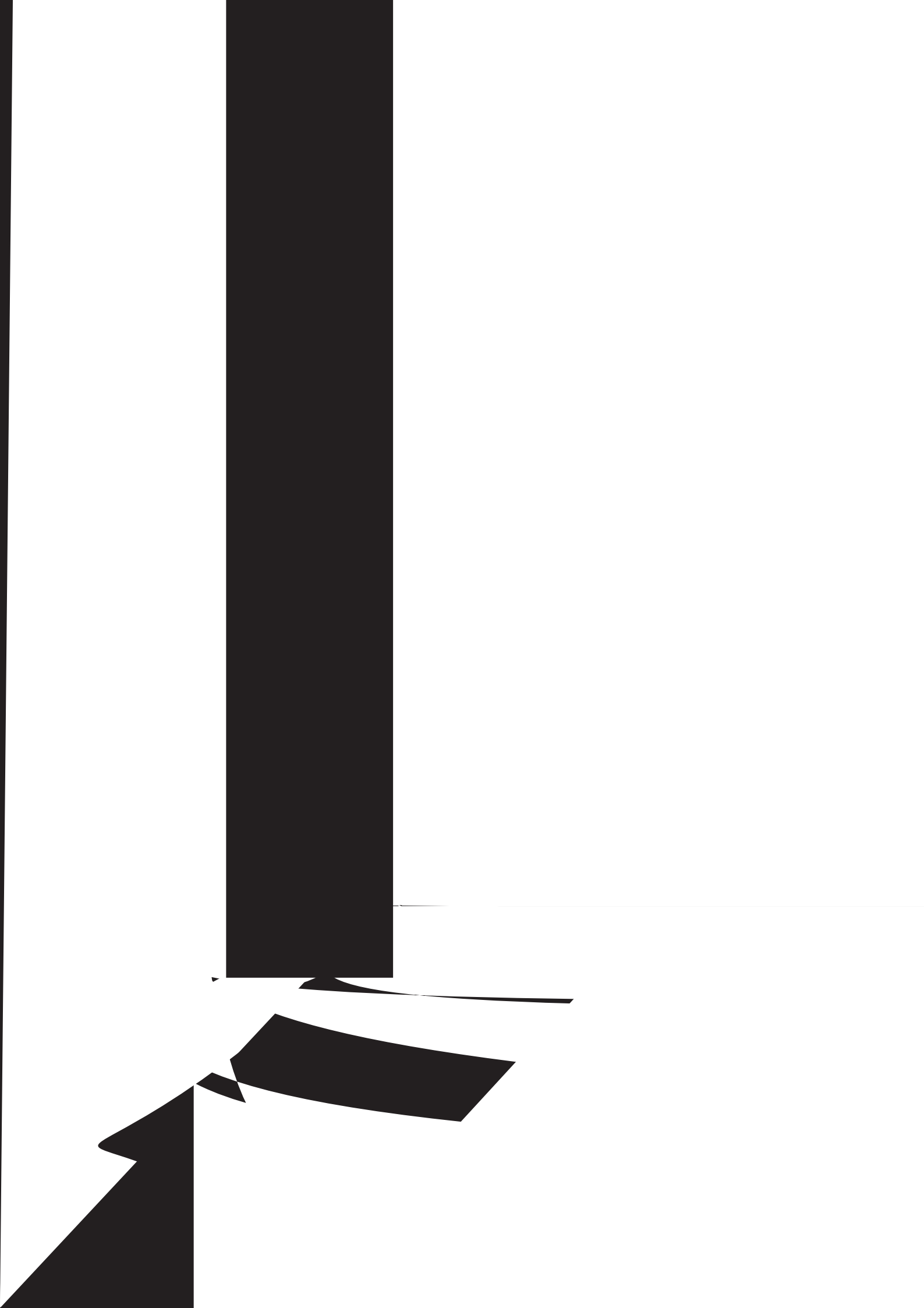
### PLAY MODE

Five different play modes are available: FOLDER, SINGLE, REPEAT ONE, REPEAT FOLDER, and SHUFFLE.

When you press REPEAT during playback, you can choose between the following play modes:

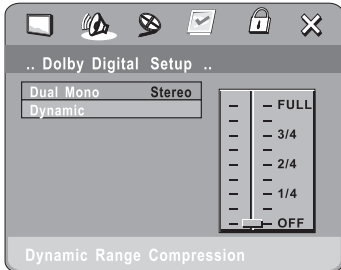
1. FOLDER: Plays the entire music menu in normal order.
2. SINGLE: Plays one music track.
3. REPEAT ONE: Plays one music track several times.
4. REPEAT FOLDER: Plays the entire music menu several times.
5. SHUFFLE: Plays music tracks in random order.





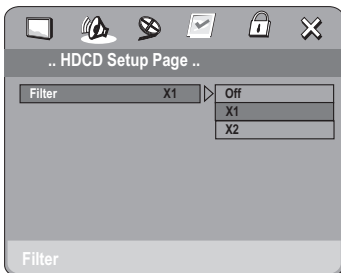
**DYNAMIC RANGE COMPRESSION**

To avoid disturbing the neighbours at night, you can use this function to reduce the sound effects volume without changing the original tone.



**HDCD**

This function is used to select sampling frequency for HDCDs. However, the function is only active when playing HDCD format discs.

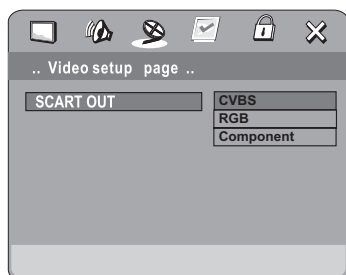


**OFF:** HDCDs will be played like normal audio CDs.  
**1X (44.1K) or 2X (88.2K):** HDCDs will be played at a sampling frequency of 44.1KHz or 88.2KHz if possible. (This setting depends on the contents of the disc).

**VIDEO SETUP**

**SCART OUT**

Here the desired video output is selected. However, note that component video output is not possible through the Scart output.



**CVBS:** Composite video output through the Scart output.

**RGB:** RGB output through the Scart output.

**Component:** Component video output through the component video outputs on the back panel.

**Note:** This output may allow both Interlace Scan and Progressive Scan. You switch between IS and PS by means of the MODE key on the remote control.

**PREFERENCE SETUP**

This menu item includes TV type, audio language, subtitles, disc menu language, parental control and default settings.

**TV TYPE**

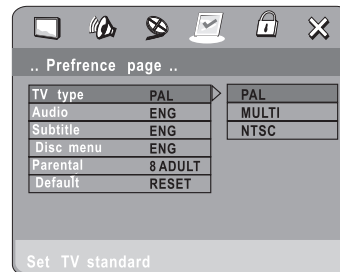
Here you select the TV system used in the country in which you live.

**PAL:** Europe

**MULTI:** This setting is often available in both places. If not, the unit must be set according to the TV system used.

**NTSC:** The USA

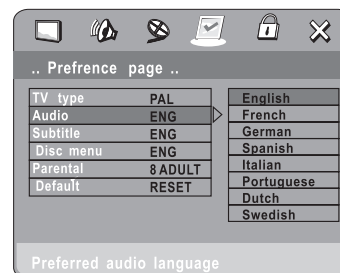
In the TV manual you can see which TV system is used.



**AUDIO**

Used to select the desired dubbing/audio language for the DVD film.

**Note:** This is only possible if the disc supports the audio language in question.



:a)



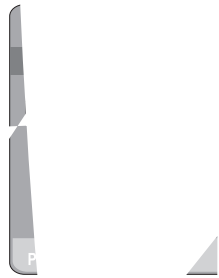
**BTIT**

d to s  
/D fil  
e: Thi  
:subtitl

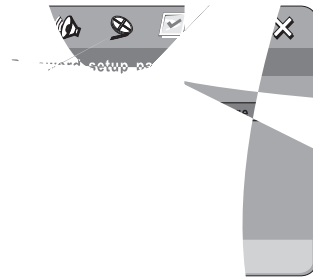


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upports



f



This troubleshooting guide may help you find a possible cause of and solution to a problem. If there are still problems, please contact the local service centre or distributor.

**PROBLEMS AND POSSIBLE SOLUTIONS**

<b>PROBLEM</b>	<b>POSSIBLE SOLUTION</b>
No power supply	Check that the plug has been inserted properly into the socket.
No picture	Check the connection between DVD player and TV set.
	Check that the TV set is working properly.
No sound	Check the connection between DVD player and any other connected units.
	Check that TV set and amplifier are working properly and adjusted correctly.
The disc is not played	Check that the disc has been inserted correctly.
	Clean the disc.
Does not react to signals from the remote control	Remove any objects blocking the signal between remote control and DVD player.
	Check that the remote control is aimed at the front panel sensor.
	Check batteries and replace as required.
Picture interference	Check the disc for dust and scratches.
	Clean or replace the disc.
	Turn off the device, wait for ten seconds and turn it on again.
No reaction when buttons are pressed	Power drop-out, power cuts, etc. Turn off the device, wait for ten seconds and turn it on again.

The DVD player is your ticket to a home cinema. Every single technical detail in this technology is better than in any other previous AV equipment. This brand new digital technology compresses the A/V effect from the cinema down on a disc with a diameter of 12 cm, i.e. the size of a CD. Particularly by means of Dolby Digital and DTS, it is possible to achieve excellent digital surround sound. The DVD player can also be used with the existing CDs, CD-Rs and CD-RWs (however, it cannot be used with all CD-RW discs).

**Comparison between DVDs and other discs:**

	DVD				LD	SVCD	VCD	CD
Encode method	Digital/MPEG II				Analog	Digital	Digital/MPEG I	Digital
Capacity	Single-side single-layer 4.7G	Double-side single-layer 8.5G	Single-side double-layer 9.4G	Double-side double-layer 17G	/	650MB	650MB	650MB
Playing Time	133 minutes	242 minutes	266 minutes	484 minutes		Single-side 60 minutes double-side 120 minutes	45 minutes	74 minutes
Disc diameter	12cm/8cm				30cm/20cm	12cm	12cm	12cm/8cm
Horizontal resolution	More than 500 line				No more than 430 line	No more than 350 line	No more than 250 line	/
Picture proportion	Multiple kinds				One kind	One kind	One kind	
Subtitle	32 kinds				16 kinds at most	4 kinds	/	
Language	8 kinds				4 kinds at most	4 kinds at most		2 kinds
Sound quality	48KHz, 96KHz/ 6, 20, 24bit				44.1KHz/ 16bit	44.1KHz/ 16bit	44.1KHz/ 16bit	44.1KHz/ 16bit

**Parental control**

This device allows parental control if the DVD has a specific certification. This function allows you to prevent your children from watching things which you consider inappropriate for them. Refer to the DVD certification and the accompanying information to find out if it carries a certification.

**Support of many different languages**









The DVD player allows you to choose among up to 8 different languages and 32 different subtitles for one DVD.

**Adjusting the size on the TV screen**

It is possible to adjust the TV screen in different ways (see the table).

**Support of many different camera angles**


You can choose yourself, from which camera angle you wish to watch the DVD.

Picture format on Disc	TV Screen Size		
	4:3		16:9
	Pan Scan	Letter-box	Wide Screen
4:3 			
16:9 			

**Functions supported by DVDs**

DVDs support many different functions and can be used independent on type of DVD player and manufacturer. Below is a list of the functions are supported by this DVD player.

 Regional code and signal system

 Dolby digital surround sound


 DTS output

 Number of languages

 Number of subtitle languages

 Picture formats

 Parental control

 Camera angles

 Closed Caption



### System and output

VF Signal system	NTSC/PAL
Frequency response	CD: 4Hz-20KHz(EIAJ) DVD: 4Hz-22KHz(48KHz)(Sample result) 4Hz-44KHz(96KHz)(Sample result)
Audio S/N ratio	> 92 dB
Video/Picture	MPEG1; MPEG2
Audio	MPEG1, MPEG2, PCM, DOLBY DIGITAL, DTS, ANALOG STEREO
Audio output	Electric level output: 2.0Vp-p
Video output	Electric level output: 1Vp-p

### General data

<b>Power</b>	220V-240V~ 50Hz
<b>Power consumption</b>	25W
<b>Dimensions (HxWxD)</b>	56 x 430 x 260mm
<b>Weight</b>	4.0 kg
<b>Operating temperature</b>	5°C to 35°C (41°F to 95°F)
<b>Operating humidity</b>	5% to 90%

**Note:** We reserve the right to make changes without notice.

**MACROVISION**

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The consumer's attention is attracted to the fact that not all high-definition TV sets are fully compatible with this device and this may cause picture interference.

In case of problems of the type 525 and 625 progressive scan, the consumer is recommended to switch to "standard definition". If you have any questions regarding the compatibility of your TV set with this 525p and 625p DVD player, please contact our customer service.



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